## Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

- 1. (Currently Amended) A method of processing an interrupt verification support mechanism in a computer system comprising a processor and an input for external interrupts communicatively coupled to the processor, the method comprising the steps:
  - (a) processing at least one actual instruction in the processor; and
- (b) if an external interrupt request or an interrupt pseudo-instruction is received by the processor, comparing data content of a program counter with data content of an interrupt register and replacing the actual instruction in an instruction fetch stage of the processor with the pseudo-instruction when the data content of the program counter matches the data content of the interrupt register, or when an external interrupt is present.
  - 2. (Original) The method of claim 1 comprising:

processing at least one actual instruction in the processor in an instruction pipeline wherein instructions are processed concurrently by an instruction fetch stage, an instruction decode stage, an instruction issue stage, an instruction execute stage and a result write-back stage.

- 3. (Previously Cancelled).
- 4. (Original) The method of claim 1 further comprising:

creating the pseudo-instruction by a co-processor connected to the processor.

5. (Original) The method of claim 1 comprising:

simultaneously processing a number of instructions in the processor in an instruction pipeline with several instruction stages each instruction being in a different instruction stage at a time.

- 6. (Previously Presented) The method of claim 1 further comprising: storing at least information of a program counter of the instruction which is to be interrupted and a sort of interrupt to use in a set of one or more interrupt registers of the processor.
  - 7. (Cancelled)
- 8. (Previously Presented) An interrupt verification support mechanism device for a computer system comprising a processor and an input for external interrupt requests or interrupt pseudo-instructions communicatively coupled to the processor, wherein the device includes a set of one or more interrupt registers each of which contains information, the information including at least a program counter of the instruction which is to be interrupted and a sort of interrupt to use, so as to enable the device to process at least one actual instruction, and if an external interrupt request is received by the processor, the at least one-actual instruction is replaced with the pseudo-instruction.
  - 9. (Previously Presented) The device of claim 8 wherein

the device further comprises an instruction fetch with a program counter and an interrupt register, the instruction fetch being coupled to a first input of a multiplexer for transmitting instructions to said multiplexer, a second input of the multiplexer connected to an interrupt pseudo-instruction input and the program counter connected with the interrupt register by a comparator.

- 10. (Previously Presented) The device of claim 9 wherein the second input of the multiplexer is capable of receiving interrupt pseudo-instruction signals or external interrupt requests.
- 11. (Previously Presented) The device of claim 9 wherein the comparator creates a high level signal only if data content of the program counter matches data content of the interrupt register.
- 12. (Previously Presented) The device of claim 9 wherein an output of the comparator is connected to a first input of an or-operator, and a second input of the or-operator is connected to an interrupt controller so as to enable the or-operator to create a high level signal if a signal received from the interrupt controller differs from a signal received from the comparator.
- 13. (Previously Presented) The device of claim 9 wherein, when data content of the program counter matches data content of the interrupt register, the actual instruction is replaced with a pseudo-instruction.
  - 14. (Previously Presented) The device of claim 9 wherein

when an external interrupt request is present at the multiplexer, the actual instruction is replaced with an interrupt pseudo-instruction.

- 15. (Previously Presented) The device of claim 9 wherein an instruction coming from an output of the multiplexer is sequentially processed in an instruction pipeline of the processor.
- 16. (Previously Presented) The device of claim 9 wherein an instruction pipeline of the processor includes an instruction fetch stage, an instruction decode stage, an instruction issue stage, an instruction execute stage and a result write-back stage.
- 17. (Previously Presented) The device of claim 9 wherein the interrupt pseudo-instruction effects instruction state stages required by the interrupt pseudo-instruction.
- 18. (Previously Presented) The device of claim 16 wherein if an interrupt request or an interrupt pseudo-instruction is received by the processor, the processor is adapted to cancel an instruction that is in the instruction fetch stage when the interrupt request or the interrupt pseudo-instruction is received and to reissue the cancelled instruction starting at the instruction fetch stage.
- if an interrupt request or an interrupt pseudo-instruction is received by the processor, the processor is adapted to cancel an instruction that is in any instruction stage

(Original) The device of claim 16 wherein

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when the interrupt request or the interrupt pseudo-instruction is received and to reissue the instruction starting at the instruction fetch stage.

- 20. (Original) The device of claim 8 wherein the pseudo-instruction is created by a co-processor connected to the processor.
- 21. (Original) The device of claim 20 wherein

the device is a media decoding system, the processor is a core decoder processor and the co-processor is a decoding accelerator adapted to assist the core processor with a decoding function.

- 22. (Original) The device of claim 20 wherein the processor is a reduced instruction set computer (RISC) processor.
- 23-24. (Cancelled)